

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1306	375/345	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 14:54
S2	891	two adj1 mixer\$1 and (IF or (intermediate adj1 frequency))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/17 13:15
S3	531	(two adj1 mixer\$1) and (IF or (intermediate adj1 frequency)) and quadrature	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/17 13:16
S4	174	(two adj1 mixer\$1) and (IF or (intermediate adj1 frequency)) and quadrature and ((automatic adj1 gain adj1 control) or AGC)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/17 13:17
S5	172	(two adj1 mixer\$1) and (IF or (intermediate adj1 frequency)) and quadrature and ((automatic adj1 gain adj1 control) or AGC) and filter\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/17 13:17
S6	42	(two adj1 mixer\$1) and (IF or (intermediate adj1 frequency)) and quadrature and ((automatic adj1 gain adj1 control) or AGC) and filter\$1 and (ADC or (analog adj digital adj converter))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/17 13:34
S7	54	dual adj1 down adj1 conver\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/17 13:39
S8	38	dual adj1 down adj1 conver\$4 and quadrature	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/17 14:26
S9	4623	down adj1 conver\$4 and quadrature	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/17 14:26

## EAST Search History

S10	1266	down adj1 conver\$4 with quadrature	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/17 14:26
S11	1052	down adj1 conver\$4 and receiver with quadrature	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/17 14:26
S12	2	dual adj down adj1 conver\$4 and receiver with quadrature	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/17 15:14
S13	3	"6519292"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/17 15:14
S14	74	digital adj1 down-converter	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 14:09
S16	34	digital adj1 down-converter and ADC and filter and mixer\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 14:26
S17	164	down-converter and ADC and filter and mixer\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 14:27
S18	57	down-converter with ADC and filter and mixer\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 14:40
S19	33	"5640698" and quadrature	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 14:41
S20	31	"5640698" and complex\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 14:44

## EAST Search History

S21	1	"5640698" and inphase	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 14:42
S22	36	"1/4" adj sampl\$3 adj rate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 14:51
S23	0	"1/4" adj sampl\$3 adj rate and "5640698"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/21 14:41
S24	272	(quarter) adj sampl\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/21 14:44
S25	0	(quarter) adj sampl\$4 and IF	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/21 14:44
S26	163	(quarter) adj sampl\$4 and converter	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/21 14:44
S27	0	(quarter) adj sampl\$4 and converter and IF	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/21 14:44
S28	24	(quarter) adj sampl\$4 and converter and AGC	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/21 15:52
S29	29	"5640698" and complex	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/14 08:54
S30	35	"5640698" and I and Q	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/14 09:57

## EAST Search History

S31	2	"20030076897"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/14 09:57
S32	12698	polyphase	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/14 10:56
S33	1617	decimation adj1 filter	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/14 10:56
S34	37	(down adj1 convert\$3) with (decimation adj1 filter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/14 10:59
S35	9	"6307877"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/14 10:59
S36	1	"20020037060" and (complex adj1 local adj1 signal)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 10:49
S37	5922	DDC	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 10:49
S38	4	DDC with mixer\$1 with complex	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 11:02
S39	4	((digital adj1 down adj1 converter) or DDC) with mixer\$1 with complex	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 11:03
S40	3	(digital adj1 down adj1 converter) with mixer\$1 with complex	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 11:03

## EAST Search History

S41	286	(digital adj1 down adj1 converter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 11:03
S42	156	(digital adj1 down adj1 converter) and mixer\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 11:03
S43	0	(digital adj1 down adj1 converter) and mixer\$1 and IF	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 11:04
S44	149	(digital adj1 down adj1 converter) and mixer\$1 and filter	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 11:04
S45	15	(digital adj1 down adj1 converter) and mixer\$1 and (decimation adj1 filter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 13:32
S46	216	(digital adj1 down adj1 converter) and receiver	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 13:32
S47	2	(digital adj1 down adj1 converter) and receiver and (complex adj1 local adj1 signal)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 13:36
S48	71	"5375146"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 13:37
S49	9	"6697603"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 13:48
S50	5	"6697603" and AGC	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 13:56

## EAST Search History

S51	6	"6697603" and (gain adj1 control\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 13:56
S52	126	(digital adj1 downconvert\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 13:57
S53	2	(digital adj1 downconvert\$3) with AGC	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 13:57
S54	25	(digital adj1 downconvert\$3) and AGC	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 13:57
S55	0	"09956653"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/05 11:12
S56	287	digital adj1 down adj1 converter	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/05 11:52
S57	27	(digital adj1 down adj1 converter) with (I and Q)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/05 11:58
S58	36	(digital adj1 down adj1 converter) and (decimat\$3 adj1 filter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/05 11:58
S59	3	"5978471"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/06 11:15
S60	9	"5978417"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/06 12:32



## EAST Search History

S61	11	"6052349"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/06 12:33
S62	1	"20020037060" and polyphase	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 10:42
S63	22	(DDC or (digital adj1 downconverter)) and polyphase	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 11:01
S64	5510	(DDC or (digital adj1 downconverter)) and (select\$3 or (cyclical\$3 adj1 select\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 11:02
S65	14	(DDC or (digital adj1 downconverter)) and (select\$3 or (cyclical\$3 adj1 select\$3)) and (second adj1 mixer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 11:06
S66	101	(DDC or (digital adj1 downconverter)) and (select\$3 or (cyclical\$3 adj1 select\$3)) and sine and cosine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 11:06
S67	1972985	(DDC or (digital adj1 downconverter)) and (select\$3 or (cyclical\$3 adj1 select\$3)) near\$3 sine and cosine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 11:06
S68	29	(DDC or (digital adj1 downconverter)) and (select\$3 or (cyclical\$3 adj1 select\$3)) with sine and cosine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 11:06
S69	34	(DDC or (digital adj1 downconverter)) and (select\$3 or (cyclical\$3 adj1 select\$3)) same sine and cosine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 11:13
S70	0	poly-phase adj1 quadrature adj1 modulator	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 11:14

## EAST Search History

S71	0	poly-phase adj1 quadrature adj1 modulator	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 11:15
S72	2123	quadrature adj1 modulator	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 11:15
S73	0	poly adj quadrature adj1 modulator	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 11:15
S74	3	polyphase adj quadrature adj1 modulator	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 11:16
S75	9	polyphase with quadrature adj1 modulator	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 12:15
S76	10	(quadrature adj1 modulator) with selector	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 12:38
S77	92	(quadrature adj1 modulator) with multiplier	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 12:39
S78	56	(quadrature adj1 modulator) with multiplier and select\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 12:41
S79	0	375/345.ccls. and (quadrature adj1 modulator) with multiplier and select\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 12:39
S80	910	375/345.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 12:39



## EAST Search History

S81	5	(quadrature adj1 modulator) with multiplier with select\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 13:05
S82	2	"20020003871"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 13:35
S83	1	"20020003871" and multiplexer	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 13:35
S84	3222	cosine and sine and (select\$3 or switch\$3 or demultiplex\$3) and "1" and "0" and "-1"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 14:56
S85	423	cosine and sine with (select\$3 or switch\$3 or demultiplex\$3) and "1" and "0" and "-1"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 14:56
S86	376673	cosine and sine with (select\$3 or switch\$3 or demultiplex\$3) and "1" and "0" and "-1" and I and Q	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 14:57
S87	36	cosine and sine with (select\$3 or switch\$3 or demultiplex\$3) and "1" and "0" and "-1" with I and Q	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 15:10
S88	25	(cosine and sine) with (I and Q) and (polyphase or poly-phase)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 15:17
S89	74	(polyphase or poly-phase) adj modulat\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 15:20
S90	10	((polyphase or poly-phase) adj modulat\$3) with (select\$3 or switch\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 15:18

## EAST Search History

S91	0	(polyphase or poly-phase) adj quadrature adj1 modulat\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 15:21
S92	3	(polyphase or poly-phase) adj quadrature adj1 modulat\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 15:24
S93	0	(polyphase or poly-phase) adj quadrature adj1 converter	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 15:25
S94	15	quadrature adj1 converter with multipl\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 15:25
S95	0	(quadrature adj1 converter) with multipl\$7 and (since and cosine)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 15:26
S96	7	(quadrature adj1 converter) with multipl\$7 and (sine and cosine)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 15:29
S97	14	(quadrature adj1 converter) and multipl\$7 and (sine and cosine) and (select\$3 or switch\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 15:32
S98	3596	(select\$3 or switch\$3) with ("1" or "-1" or "0") and I and Q and (local adj1 oscillator)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 15:33
S99	15340	(select\$3 or switch\$3) with ("1" or "-1" or "0") and I and Q and (oscillator)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 15:33
S100	1399	(select\$3 or switch\$3) with ("1" or "-1" or "0") and I and Q and (oscillator) and sine and cosine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 15:33

## EAST Search History

S10 1	762	(select\$3 or switch\$3) with ("1" or "-1" or "0") and I and Q and (oscillator) and sine and cosine and DC	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 15:34
S10 2	23	(select\$3 or switch\$3) with ("1" or "-1" or "0") and I and Q and (oscillator) and sine and cosine and DDC	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 15:36
S10 3	483	(select\$3 or switch\$3) with ("1" or "-1" or "0") with sine and cosine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 15:37
S10 4	358	(select\$3 or switch\$3) with ("1" or "-1" or "0") with sine with cosine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 15:49
S10 5	0	70611998\\	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 15:49
S10 6	0	"70611998"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 15:49
S10 7	3	"7061998"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 15:49
S10 8	9	("4555667"   "4669095"   "5159281"   "5272448"   "5539776"   "5633895"   "5640427"   "5696796"   "6922555");PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/19 15:50
S10 9	1	(DDC or (digital adj1 downconverter)) with mixer\$1 with (decimation adj1 filter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 16:55
S11 0	6	(DDC or (digital adj1 downconverter)) and mixer\$1 with (decimation adj1 filter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 16:12

## EAST Search History

S11 1	12	(DDC or (digital adj1 downconverter)) and mixer\$1 and (decimation adj1 filter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 16:12
S11 2	6437	(DDC or (digital adj1 downconverter))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 16:55
S11 3	73	(DDC or (digital adj1 downconverter)) with A/D	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 16:56